

In the claims:

Kindly cancel claims 4, ~~9~~-16, 20-22, 24, ~~26~~, 28, and ~~31~~-32 without prejudice.

Kindly amend claims 1-3, 5-8, 25 and 27 as follows:

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1. A method for controlling starch synthesis in tomatoes comprising:
providing a population of plants derived from interspecific crosses of *Lycopersicon hirsutum* with *Lycopersicon esculentum* genotypes; and
selecting individuals of said population that each contain an allele of a gene that increases the activity of ADP-glucose pyrophosphorylase (ADPGPPase), said allele originating from said *Lycopersicon hirsutum*.

2. The method according to claim 1 wherein said step of selecting comprises selecting individuals that each contain the allele of the gene that encodes for a subunit of ADPGPPase.

3. The method according to claim 1 wherein said step of selecting comprises selecting individuals that each contain the allele of the gene that encodes for the large subunit (LS1) of ADPGPPase.

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5. The method according to claim 1 wherein said step of selecting comprises selecting by using a molecular marker which is diagnostic for said gene.

6. The method according to claim 5 wherein said molecular marker is diagnostic for a subunit of ADPGPPase.

7. The method according to claim 5 wherein said molecular marker is diagnostic for the large subunit (LS1) of ADPGPPase.

8. The method according to claim 1 wherein said step of selecting comprises selecting by measuring ADPGPPase activity of said young fruit, and selecting those young fruit with high ADPGPPase activity.

B3

25.

A fruit produced by the plant of claim 23.

B4

27.

A seed which when grown yields the plant of claim 23.
